

506 Springdale Street, Mount Horeb, WI 53572

April 26, 2021

Mr. Eric Norton U.S. Army Corps of Engineers Eric.M.Norton@usace.army.mil

RE: Summary of Supplemental Information and Data, Proposed Big Hollow Compensatory Wetland Mitigation Bank, Town of Spring Green, Sauk County, WI

Dear Mr. Norton:

On behalf of Big Hollow Wetland, LLC, I am attaching some additional information that has been collected at the proposed Big Hollow Wetland Mitigation Bank site that further supports the position regarding the feasibility of the restoration at Big Hollow, and the extent of reestablishment vs establishment. This includes hydrology data recorded throughout the 2020 growing season at ten (10) shallow monitoring well locations, additional soil evaluations that were completed on the site this spring, site photographs, precipitation data, and a revised hydric soil map.

A draft MBI was submitted to the USACE on June 15, 2020 and the Corps confirmed the draft MBI and CSP was complete on June 22, 2020. Comments from the Corps and IRT were dated October 9, 2020. The bank Sponsor had provided additional information in response to the USACE and IRT comments of the draft MBI on January 26, 2021. Although the thorough review and comments of the draft MBI and subsequent conference call on March 10, 2021 was appreciated, the Sponsor has not received any further response or correspondence related to the October 9, 2020 comments or the January 26, 2021 supplemental information provided. In-lieu of continuing to hold the project stagnant, the Sponsor is providing this supplemental information preemptively, in the hopes that this will satisfy any remaining concerns or questions and avoid further delays. Please note that the timelines provided in 33 CFR 332.8 have not been strictly adhered to throughout this process.

### Hydrology

The hydrology data from last year, collected over the period of April – October 2020, illustrates the near surface water table that currently exists on the site, indicating that very subtle modifications to the existing drainage system, surface elevations, and surface water flow will result in establishing wetland hydrology. The growing season of 2020 represented a relatively normal year, in terms of precipitation patterns and quantities (see attached PPT rolling average graph). Actual precipitation during the 2020 growing season was approximately 0.5 inch less than the average precipitation during the same time period. Despite less than normal precipitation, water table elevations were generally higher in October 2020 than they started in April 2020,



indicating that these shallow groundwater levels can be expected to persist in the future.

The enclosed hydrograph demonstrates that the areas that were presented in the draft MBI as wetland restoration (reestablishment) supported saturated soils within 12" of the surface throughout the majority of the 2020 growing season, including the southeastern portion of the site that the Corps suggested to classify as wetland establishment. This includes the areas that contain monitoring wells SW 1, 2, 3, 6, 7, 8 which are located in representative areas throughout the mitigation site. These monitoring wells all recorded water-levels within 12" of the surface throughout most of the year. Monitoring wells SW-4, 5 and 9 are located near the margins of the proposed wetland restoration areas, and the data recorded at these wells illustrates fluctuating water-levels near the surface throughout the growing season (ranging from the surface to 2.5' below the surface), but drier than the wells within the primary wetland restoration areas. SW-10 is located outside of the proposed wetland restoration area, and as expected illustrates much drier conditions. In fact, rarely was there a water table present within 2.5 feet of the surface at this well. Water-levels measured in the early growing season of 2021 also were consistent with the hydrology data collected throughout 2020, consisting of widespread saturated soils at or near the surface, with some areas supporting shallow inundations. These observations followed a relatively warm and dry early spring and lower than normal amounts of snowfall.

This recent hydrology data collected from the shallow monitoring wells is consistent with the longer-term hydrology data that was provided and summarized in the CSP from the deeper groundwater monitoring wells. It is also consistent with the hydrology modeling information that was presented in the CSP and the follow-up correspondence.

# Soils

Additional soil information was collected in April 2021 to further support the determination and extent of hydric soils. Again, consistent with that described in the CSP and follow-up correspondence, hydric soils are extensive within the proposed wetland restoration areas, including the areas that the IRT requested be categorized as establishment. As explained in previous correspondence the northwestern portion of the wetland restoration area (representing approximately 60% of the wetland restoration area) has predominately widespread hydric soils. The southeastern portion of the proposed restoration area (representing approximately 40% of the wetland restoration area) also supports hydric soils, however this area consists of a mosaic of marginally hydric and marginally nonhydric soils. However, in all cases, there is a depleted to nearly depleted matrix present near the surface, whether or not a hydric soil indicator is technically met, certainly is not the only factor in describing the somewhat poorly to poorly drained soils that are present throughout the proposed restoration area. The sandy subsoils within this general area are not typically grey in color unless they are saturated for an extended period of time. For example, the soil profile documented near monitoring well SW-10 (SP-15), supports a reddish/brown (10YR 4/4) sandy subsoil, that is consistent with results of the hydrology data documented at this location, since it is dry.



All other soil profiles observed and documented are consistent with the hydrology monitoring results associated with those locations, in that the fluctuating, near surface saturation results in various redoximorphic features and/or depleted or nearly depleted matrices near the surface (in some cases a hydric indicator is met and in other cases hydric indicators are marginally not met).

#### Wetland Functional Benefits

The functional benefits of this property being removed from agricultural use and restored to wetland are far more significant than many "cookie cutter" wetland restorations based on its location in the watershed, the opportunity for the wetland to filter agricultural runoff from a heavily row cropped watershed, the proximity to the Lower Wisconsin River (which has a direct surface water connection from this property), and the unique location at the foot of the Spring Green Nature Preserve. Not to mention the unique characteristics associated with the Wisconsin River Valley landscape and historic low prairie region that once covered this area, often consisting of a mosaic of dry, mesic, and wet prairies.

As you may know, the Lower Wisconsin Riverway was designated in 2020 as a Wetland of International Importance by the Ramsar Convention, because it harbors diverse and rich communities, including a high concentration of rare and threatened species. However, agricultural application of liquid nitrogen fertilizers on the sandy soils of the Wisconsin River Valley has led to widespread nitrate contamination of groundwater and the Wisconsin River. Numerous backwater sloughs along the Lower Wisconsin Riverway have signs of nitrogen hyper-saturation due to high levels of nitrate in groundwater, leading to water quality degradation and excessive free floating plant growth.

Conservation buffers have been proposed as part of the solution to this nitrate problem. The proposed Big Hollow wetland mitigation site would directly contribute to reduced nitrate loading to the Lower Wisconsin Riverway, due to the effective denitrification that wetlands commonly provide due to their water storage and microbial activity.

### Summary

Throughout the planning phases of this project, there has been support from The Nature Conservancy, the Wisconsin Wetlands Association, as well as former WDNR, USACE and other former IRT members including Pat Trochlell (former WDNR statewide wetland expert), Pam Schense (former WDNR Mitigation Program Manager), and Kerrie Hauser (former USACE PM). The project also has the support of the USDA-Wildlife Service and the WisDOT – Bureau of Aeronautics. All of the entities and agency staff that have supported this project in the past, have been to the site, in many cases numerous times over the years.

It cannot be stressed enough that this site and project is not a typical wetland mitigation project where there is simply drain tile and drainage ditches removed to reestablish historic wetland hydrology. Rather this is a dynamic site that has been responding to changes in the watershed, surface and groundwater water flows, and climatic conditions. The Sponsor is simply proposing to help this property become a high-quality wetland that supports native wetland plant communities appropriate for



the dynamic and fluctuating hydrologic conditions. Dismissing this project because it is complex and nontraditional is not a reasonable response to an overall, significantly beneficial project to the area and its resources. There is far more ecological benefit to establishing a mitigation bank at this property than the alternative which is to install extensive drain tile that discharges the site runoff and runoff derived from upslope agricultural fields directly to the Wisconsin River. However, that is the only alternative at this time in order for the property to be productive.

In summary, this data supports the plan that was provide in the draft CSP, with some minor modifications. However, categorizing 40% of the wetland mitigation area as wetland establishment/creation is not an accurate representation of the proposed project and instead the data suggests that wetland reestablishment would better categorize all of the proposed wetland restoration areas.

Thanks for your consideration and please let me know what you will need from the Sponsor to keep this project moving forward. Preferably, the Sponsor would like to finalize the CSP and MBI for final review.

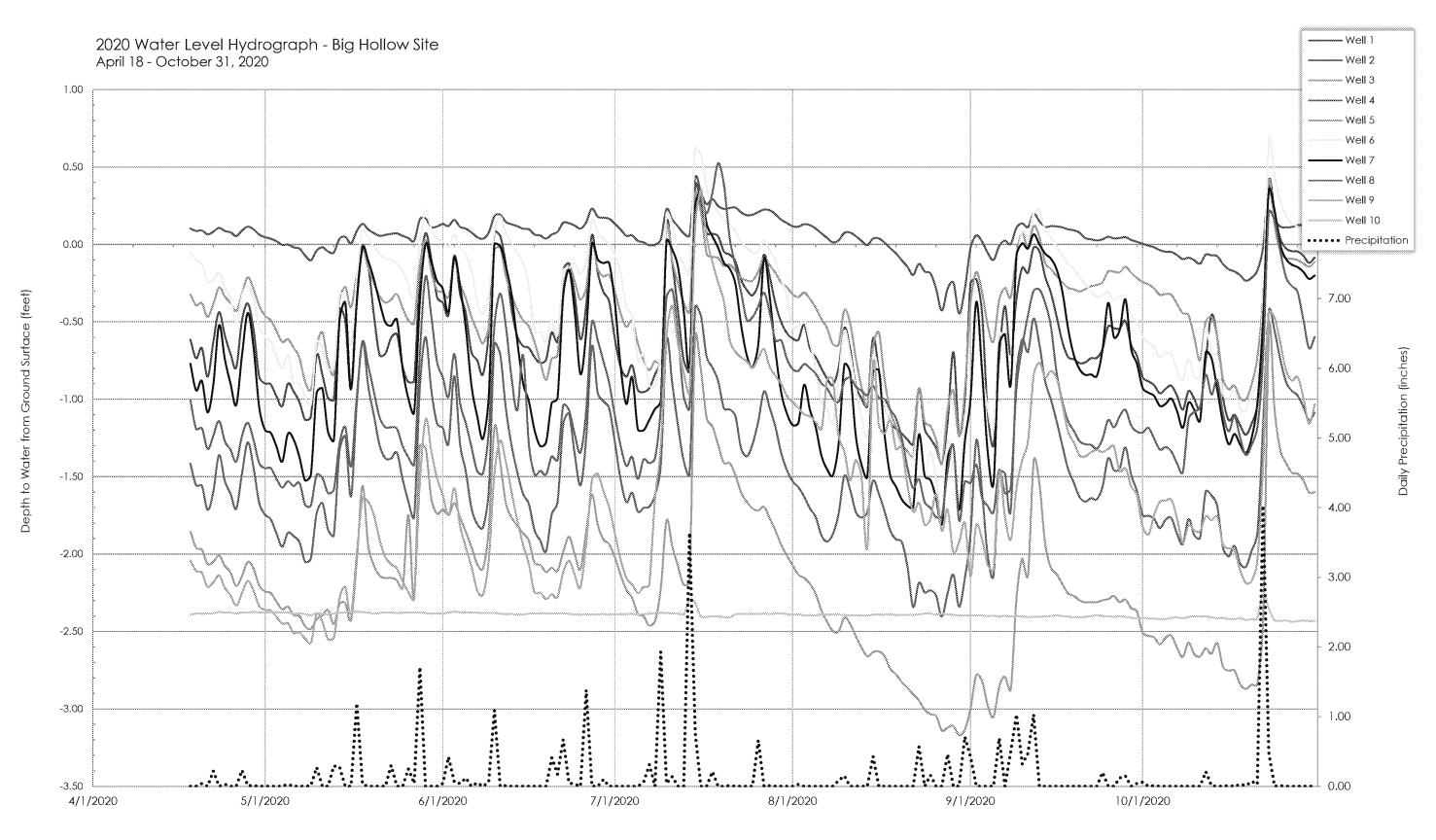
Sincerely,

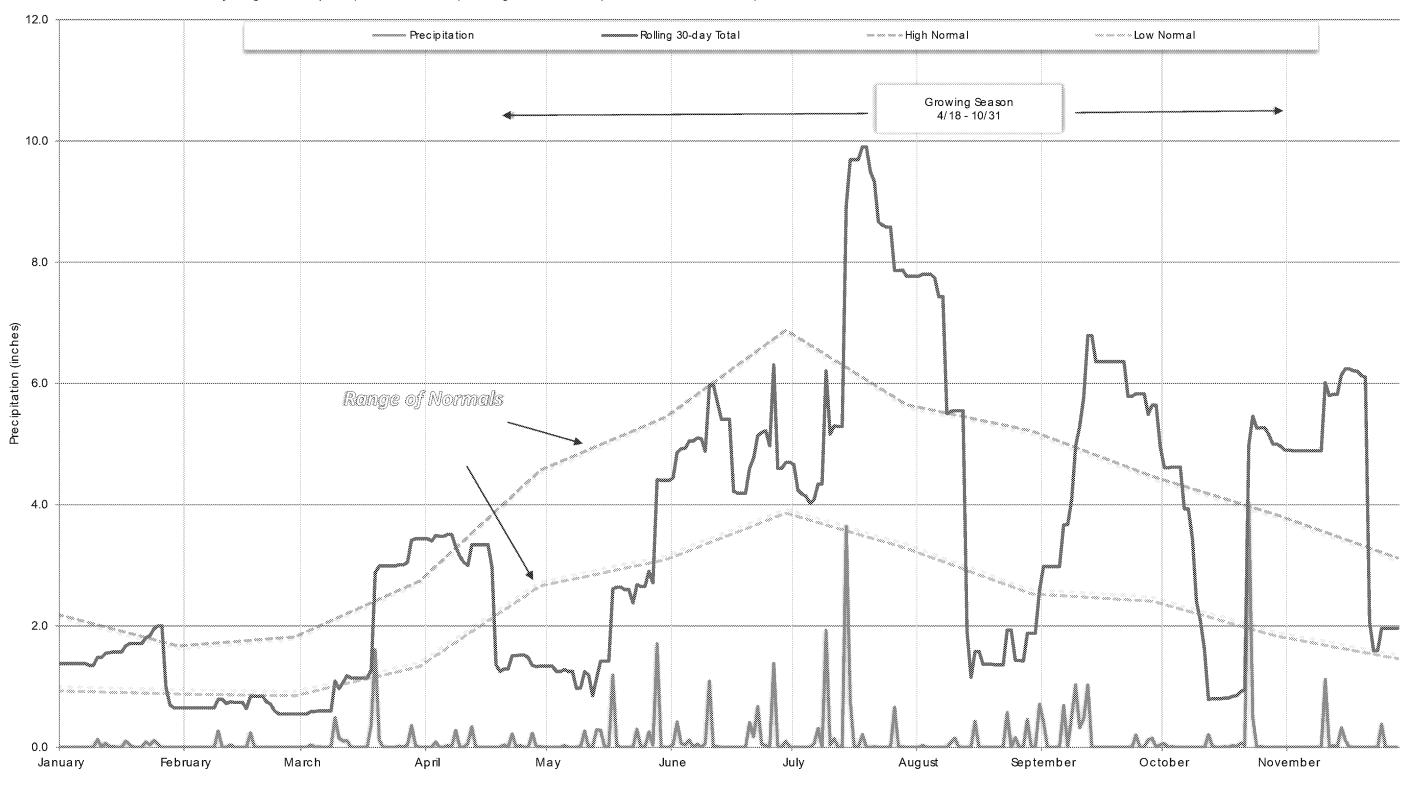
Jeff Kraemer, Principal Heartland Ecological Group, Inc. jeff@heartlandecological.com 608.490.2450 Ext. 2

Cc: Dale Clark, Sponsor
Buck Sweeney, Axley Brynelson
Liz Stephens, Axley Brynelson
Steve Gaffield, EOR
Todd Vesperman, USACE
Tom Nedland, WDNR

## **Enclosures:**

- 2020 Hydrographs
- 2020-2021 Soil Evaluation Data Sheets
- 2020 Precipitation Data
- 2021 Site Photographs
- Revised Hydric Soil Map





Profile Desc	ription: (Describe t	o the depth	needed to doc	ument th	ne indica	ator or	confirm the	absence o	f indicators	.)		
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0-6	10YR 2/1	95	10YR 5/6	5	C	M	Loamy/Clayey	SiL - high organic content
6-17	10YR 2/1	100					Loamy/Clayey	SiL - high organic content
17-32	10YR 5/2	88	10YR 5/8	12	С	M	Loamy/Clayey	SiL / SL
32-36	10YR 5/3	85	10YR 5/8	15			Sandy	Medium Sand
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22-30	10YR 5/2	85	10YR 5/8	15	С	M	Loamy/Clayey		SiL	
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14-24 10YR 5/1 95 10YR 5/8 5 C M Loamy/Clayey SiL  24-28 10YR 6/1 100 Sandy Medium Sand  1-Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  1-Type: C=Concentration, D=Depletion Matrix, MS=Masked Sand Grains.  1-Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  1-Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  1-Type: C=Concentration, D=Depletion Sandy Reduce (F5)  1-Type: C=Concentration, D=Depletion Sandy Reduce (F5)  1-Type: C=Concentration, Medicator Sandy Matrix, MS=Masked Sand Grains.  1-
24-28 10YR 6/1 100 Sandy Medium Sand  Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Type: C=Concentration, D=Depletion, RM=Reduced Matrix.  Thick coll Indicators:  Indicators for Problematic Hydric Soils <sup>2</sup> :  Indicators for Problematic Hydric Soils <sup>2</sup> :  Coast Prairie Redox (A16)  Loast Prairie Redox (A16)  Endox Alfa (Sandy Redox (S5))  Iron-Manganese Masses (F12)  Red Parent Material (F21)  Very Shallow Dark Surface (F22)  Other (Explain in Remarks)  2 cm Muck (A10)  Depleted Matrix (F2)  Depleted Below Dark Surface (A11)  Depleted Matrix (F3)  Thick Dark Surface (A12)  Redox Dark Surface (F7)  Sandy Mucky Mineral (S1)  Depleted Dark Surface (F7)  Sandy Mucky Mineral (S1)  Depleted Dark Surface (F7)  Semularity Peat or Peat (S3)  Restrictive Layer (if observed):  Type: Depth (inches):  Type: Depth (inches):  Hydric Soil Present?  Yes No X   X  Remarks:  Hydrology Indicators (minimum of two required)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Thistosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Stripped Matrix (S6)  Hydrogen Sulfide (A4)  Dark Surface (S7)  Stratified Layers (A5)  Loamy Mucky Mineral (F1)  Depleted Matrix (F3)  Thick Dark Surface (A11)  Sandy Mucky Mineral (S1)  Depleted Dark Surface (F6)  Sandy Mucky Mineral (S1)  Depleted Dark Surface (F7)  Thick Dark Surface (A12)  Redox Depressions (F8)  Redox Depressions (F8)  Type:  Depth (inches):  Redox Depressions (F8)  Hydric Soil Present?  Yes No X  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Secondary Indicators (minimum of two required)
Hydric Soil Indicators:  Histosol (A1)  Sandy Gleyed Matrix (S4)  Coast Prairie Redox (A16)  Histic Epipedon (A2)  Sandy Redox (S5)  Iron-Manganese Masses (F12)  Black Histic (A3)  Stripped Matrix (S6)  Red Parent Material (F21)  Hydrogen Sulfide (A4)  Dark Surface (S7)  Very Shallow Dark Surface (F22)  Stratified Layers (A5)  Loamy Mucky Mineral (F1)  Depleted Below Dark Surface (A11)  Depleted Matrix (F3)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Depleted Dark Surface (F7)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Estrictive Layer (if observed):  Type:  Depth (inches):  Redox Dark Surface (F8)  Hydric Soil Present?  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Secondary Indicators (minimum of two required)
Hydric Soil Indicators:  Histosol (A1)  Sandy Gleyed Matrix (S4)  Coast Prairie Redox (A16)  Histic Epipedon (A2)  Sandy Redox (S5)  Elnon-Manganese Masses (F12)  Black Histic (A3)  Stripped Matrix (S6)  Red Parent Material (F21)  Hydrogen Sulfide (A4)  Dark Surface (S7)  Very Shallow Dark Surface (F22)  Stratified Layers (A5)  Loamy Mucky Mineral (F1)  Depleted Below Dark Surface (A11)  Depleted Matrix (F3)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Depleted Dark Surface (F6)  Sandy Mucky Mineral (S1)  Depleted Dark Surface (F7)  wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Yes No X  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Secondary Indicators (minimum of two required)
Hydric Soil Indicators:  Histosol (A1)  Sandy Gleyed Matrix (S4)  Coast Prairie Redox (A16)  Histic Epipedon (A2)  Sandy Redox (S5)  Elnon-Manganese Masses (F12)  Black Histic (A3)  Stripped Matrix (S6)  Red Parent Material (F21)  Hydrogen Sulfide (A4)  Dark Surface (S7)  Very Shallow Dark Surface (F22)  Stratified Layers (A5)  Loamy Mucky Mineral (F1)  Depleted Below Dark Surface (A11)  Depleted Matrix (F3)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Depleted Dark Surface (F6)  Sandy Mucky Mineral (S1)  Depleted Dark Surface (F7)  wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Yes No X  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Secondary Indicators (minimum of two required)
Hydric Soil Indicators:  Histosol (A1)  Sandy Gleyed Matrix (S4)  Coast Prairie Redox (A16)  Histic Epipedon (A2)  Sandy Redox (S5)  Elnon-Manganese Masses (F12)  Black Histic (A3)  Stripped Matrix (S6)  Red Parent Material (F21)  Hydrogen Sulfide (A4)  Dark Surface (S7)  Very Shallow Dark Surface (F22)  Stratified Layers (A5)  Loamy Mucky Mineral (F1)  Depleted Below Dark Surface (A11)  Depleted Matrix (F3)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Depleted Dark Surface (F6)  Sandy Mucky Mineral (S1)  Depleted Dark Surface (F7)  wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Yes No X  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Secondary Indicators (minimum of two required)
Hydric Soil Indicators:  Histosol (A1)  Sandy Gleyed Matrix (S4)  Coast Prairie Redox (A16)  Histic Epipedon (A2)  Sandy Redox (S5)  Elnon-Manganese Masses (F12)  Black Histic (A3)  Stripped Matrix (S6)  Red Parent Material (F21)  Hydrogen Sulfide (A4)  Dark Surface (S7)  Very Shallow Dark Surface (F22)  Stratified Layers (A5)  Loamy Mucky Mineral (F1)  Depleted Below Dark Surface (A11)  Depleted Matrix (F3)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Depleted Dark Surface (F6)  Sandy Mucky Mineral (S1)  Depleted Dark Surface (F7)  wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Yes No X  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Secondary Indicators (minimum of two required)
Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16)  Histic Epipedon (A2) Sandy Redox (S5) Iron-Manganese Masses (F12)  Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21)  Hydrogen Sulfide (A4) Dark Surface (S7) Very Shallow Dark Surface (F22)  Stratified Layers (A5) Loamy Mucky Mineral (F1) Other (Explain in Remarks)  2 cm Muck (A10) Loamy Gleyed Matrix (F2)  Depleted Below Dark Surface (A11) Depleted Matrix (F3)  Thick Dark Surface (A12) Redox Dark Surface (F6) Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Wetland hydrology must be present, Set of Mucky Peat or Peat (S3) Redox Depressions (F8) Unless disturbed or problematic.  Restrictive Layer (if observed):  Type: Depth (inches): Hydric Soil Present? Yes No X  Remarks:  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required)
Histic Epipedon (A2)  Black Histic (A3)  Stripped Matrix (S6)  Red Parent Material (F21)  Hydrogen Sulfide (A4)  Dark Surface (S7)  Stratified Layers (A5)  Loamy Mucky Mineral (F1)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Redox Dark Surface (F6)  Sandy Mucky Mineral (S1)  Redox Dark Surface (F7)  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Iron-Manganese Masses (F12)  Iron-Manganese Masses (F12)  Red Parent Material (F21)  Red Parent Material (F21)  Red Parent Material (F21)  Very Shallow Dark Surface (F22)  Very Shallow Dark Surface (F22)  Other (Explain in Remarks)  Iron-Manganese Masses (F12)  Red Parent Material (F21)  Very Shallow Dark Surface (F22)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type:  Depth (inches):  Perimary Indicators (minimum of one is required; check all that apply)  Secondary Indicators (minimum of two required)
Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21)  Hydrogen Sulfide (A4) Dark Surface (S7) Very Shallow Dark Surface (F22)  Stratified Layers (A5) Loamy Mucky Mineral (F1) Other (Explain in Remarks)  2 cm Muck (A10) Loamy Gleyed Matrix (F2)  Depleted Below Dark Surface (A11) Depleted Matrix (F3)  Thick Dark Surface (A12) Redox Dark Surface (F6) Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Seady Mucky Mineral (S1) Wetland hydrology must be present, Unless disturbed or problematic.  Restrictive Layer (if observed):  Type: Depth (inches): Hydric Soil Present? Yes No X  Remarks:  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required)
Hydrogen Sulfide (A4)  Dark Surface (S7)  Stratified Layers (A5)  Loamy Mucky Mineral (F1)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Depleted Dark Surface (F6)  Sandy Mucky Mineral (S1)  Depleted Dark Surface (F7)  Thick Dark Surface (A12)  Redox Dark Surface (F7)  Wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Wetand Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Secondary Indicators (minimum of two required)
Stratified Layers (A5) Loamy Mucky Mineral (F1) Other (Explain in Remarks)  2 cm Muck (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) unless disturbed or problematic.  Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No X  Remarks:  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required)
2 cm Muck (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No X  Remarks:  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)  Secondary Indicators (minimum of two required)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Some Mucky Peat or Peat (S3)  Redox Depressions (F8)  Restrictive Layer (if observed): Type: Depth (inches):  Remarks:  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)  Depleted Matrix (F3) Redox Dark Surface (F6) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, wetland hydrology must be present, unless disturbed or problematic.  Hydric Soil Present?  Yes No X  Secondary Indicators (minimum of two required)
Thick Dark Surface (A12) Redox Dark Surface (F6) 3Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No X  Remarks:  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)  Secondary Indicators (minimum of two required)
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):
Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present?  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)  Redox Depressions (F8)  unless disturbed or problematic.  Hydric Soil Present?  Yes No X  No X  Secondary Indicators (minimum of two required)
Restrictive Layer (if observed):     Type:     Depth (inches):  Hydric Soil Present?  Yes No X  Remarks:  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Secondary Indicators (minimum of two required)
Type: Depth (inches): Hydric Soil Present?  Yes No X  Remarks:  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)  Secondary Indicators (minimum of two required)
Depth (inches):
HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)  Secondary Indicators (minimum of two required)
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)  Secondary Indicators (minimum of two required)
Surface Water (A1)  Water-Stained Leaves (B9)  Surface Soil Cracks (B6)
High Water Table (A2)  Aquatic Fauna (B13)  Drainage Patterns (B10)  The American (B14)  Drainage Patterns (B10)
Saturation (A3)True Aquatic Plants (B14) Pry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Sediment Deposits (B2)
Algal Mat or Crust (B4)  Recent Iron Reduction in Tilled Soils (C6)  Geomorphic Position (D2)
Iron Deposits (B5)  Thin Muck Surface (C7)  FAC-Neutral Test (D5)
Inundation Visible on Aerial Imagery (B7)  Gauge or Well Data (D9)
Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)
Field Observations:
Surface Water Present? Yes No X Depth (inches):
Water Table Present? Yes X No Depth (inches): 22
Saturation Present? Yes X No Depth (inches): 16 Wetland Hydrology Present? Yes No X
Saturation Present? Yes X No Depth (inches): 16 Wetland Hydrology Present? Yes No X (includes capillary fringe)
Saturation Present? Yes X No Depth (inches): 16 Wetland Hydrology Present? Yes No X (includes capillary fringe)
Saturation Present? Yes X No Depth (inches): 16 Wetland Hydrology Present? Yes No X (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Profile Desc	ription: (Describe	to the dep	th needed to doc	ument tl	he indica	tor or o	onfirm the absence o	of indicators.)	
Depth	Matrix			x Featur					
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-18	10YR 2/1	100		************			Loamy/Clayey	SL	
18-24	10YR 4/2	100		************			Sandy	LS	
24-28	10YR 5/1	100					Sandy	LS	
							***************************************		
							***************************************		
***************************************		***************************************		***************************************		***************************************	Recommendation		
1			D. dere di Marie I	40. 14			21	- DI D I i i M M.A	
Hydric Soil	oncentration, D=Depl	etion, Rivi=	Reduced Matrix, N	/IS=Mas	ked Sand	Grains		<ul> <li>PL=Pore Lining, M=Mat</li> <li>s for Problematic Hydric</li> </ul>	***********************
Histosol			Sandy Gle	wad Mat	riv (S1)			s for Problematic Hydric t Prairie Redox (A16)	30115 .
	pipedon (A2)		Sandy Red					Manganese Masses (F12)	1
Black His			Stripped M	, ,				Parent Material (F21)	•
	n Sulfide (A4)		Dark Surfa		-,			Shallow Dark Surface (F2	22)
***********	Layers (A5)		Loamy Mu		eral (F1)		***************************************	· (Explain in Remarks)	,
2 cm Mu			Loamy Gle				enedoenener	,	
Depleted	l Below Dark Surface	(A11)	Depleted N						
Thick Da	rk Surface (A12)		Redox Dar	rk Surfac	ce (F6)		<sup>3</sup> Indicator	s of hydrophytic vegetatio	n and
Sandy M	lucky Mineral (S1)		Depleted [	Dark Sur	face (F7)	ı	wetla	nd hydrology must be pre	sent,
5 cm Mu	cky Peat or Peat (S3	5)	Redox De	pression	s (F8)		unles	s disturbed or problemation	С.
Restrictive I	Layer (if observed):								
Type:									
Depth (ir	nches):		***************************************				Hydric Soil Present	? Yes	No X
Remarks:		•							
HYDROLO	GY 								
_	drology Indicators:								
	cators (minimum of o	ne is requi						y Indicators (minimum of	two required)
	Water (A1)		Water-Sta		` '			ce Soil Cracks (B6)	
**********	ter Table (A2)		Aquatic Fa				waannaana	age Patterns (B10)	
X Saturation			True Aqua				_	Season Water Table (C2)	
-	arks (B1) it Deposits (B2)		Hydrogen Oxidized F		•			ish Burrows (C8) ation Visible on Aerial Ima	2221 (CO)
	osits (B3)		Presence	•		_		ed or Stressed Plants (D1	
	t or Crust (B4)		Recent Iro			,		norphic Position (D2)	' /
	osits (B5)		Thin Muck				***************************************	Neutral Test (D5)	
***************************************	on Visible on Aerial Ir	magery (B7			` '		announced.	, ,	
Sparsely	Vegetated Concave	Surface (E	38) Other (Exp	olain in F	Remarks)				
Field Obser	vations:								
Surface Wat	er Present? Ye	s	No X	Depth (i	nches):				
Water Table	Present? Ye	s X	No	Depth (i	nches):	15			
Saturation P	resent? Ye	s X	No	Depth (i	nches): _	11	Wetland Hydrolog	gy Present? Yes X	No
(includes car	oillary fringe)								******************************
Describe Re	corded Data (stream	gauge, mo	onitoring well, aeria	l photos	, previou	s inspec	tions), if available:		
Remarks:									

Profile Desc	ription: (Describe	to the depti	needed to docu	ument tl	he indica	ator or o	confirm the absenc	e of indicators.	)	
Depth	Matrix		Redo	x Featur	es					
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-12	10YR 2/1	100					Loamy/Clayey		SL	
12-18	2.5Y 5/2	92	10YR 5/8	8	С	М	Sandy		LS	
	100000000000000000000000000000000000000	000000000000000000000000000000000000000		***************************************	***************************************	***************************************	***************************************		***************************************	
***************************************		000000000000000000000000000000000000000								
		-								
VARABARARARARARARARARARARARARARARARARARA	алланичнализманичнализманичналичналичналичн	unununununun manu		***************************************		**********	AARRAAARAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	REF BRANCONANCONANCONANCONANCO	***************************************	***************************************
·	***************************************	***************************************					***************************************			
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion, RM=F	Reduced Matrix, N	/IS=Mas	ked Sand	Grains	. <sup>2</sup> Locatio	on: PL=Pore Lir	ning, M=Matrix	⟨.
Hydric Soil	Indicators:						Indicat	ors for Problem	natic Hydric	Soils³:
Histosol	(A1)		Sandy Gle	yed Mat	rix (S4)		Co.	ast Prairie Redo	x (A16)	
	ipedon (A2)		Sandy Red	dox (S5)			Iroi	n-Manganese M	asses (F12)	
Black His			Stripped M	•	3)		***************************************	d Parent Materia	` '	
***********	n Sulfide (A4)		Dark Surfa				***************************************	ry Shallow Dark		)
	Layers (A5)		Loamy Mu	-			Oth	ner (Explain in R	temarks)	
2 cm Mu	' '		Loamy Gle							
	Below Dark Surface	(A11)	Depleted N				2			
	rk Surface (A12)		Redox Dar		, ,			tors of hydrophy	-	
***************************************	ucky Mineral (S1)		Depleted D		, ,	)		tland hydrology	•	ent,
5 cm Mu	cky Peat or Peat (S3	)	Redox Dep	pression	s (F8)		unl	ess disturbed or	problematic.	
Restrictive I	_ayer (if observed):									
Type:										
Depth (inches):								ent?	YesX	No
Remarks:										
HYDROLO										
1	drology Indicators:									
Primary India	cators (minimum of o	ne is require						<u>lary Indicators (r</u>		vo required)
	Water (A1)		Water-Stai		٠,			rface Soil Crack	` ,	
	ter Table (A2)		Aquatic Fa		-		***************************************	ainage Patterns		
X Saturation	` '		True Aqua					/-Season Water	• •	
	arks (B1)		Hydrogen		, ,			ayfish Burrows (		(00)
***************************************	t Deposits (B2)		Oxidized R	•		-	,	turation Visible o	_	jery (C9)
	osits (B3) t or Crust (B4)		Presence of			. ,		inted or Stresse	` ,	
***************************************	osits (B5)		Recent Iro Thin Muck			ilea Soii		omorphic Position C-Neutral Test (		
	on Visible on Aerial Ir	nacony (R7)	MARKET AND THE STATE OF THE STA		` '		ГА	C-Neutral Test (	03)	
	Vegetated Concave				, ,					
Field Obser			- Other (Exp				T			
Surface Wat		e	No X	Depth (i	nches).					
Water Table				Depth (i	· -	1				
Saturation P		***************************************	***************************************	Depth (i		0	Wetland Hydrol	oav Present?	Yes X	No
(includes car		***************************************	***************************************	F (·					***************************************	***************************************
	corded Data (stream	gauge, mor	itoring well, aeria	l photos	, previou	s inspec	ctions), if available:			
	`	- '	<del>-</del>	•		•				
Remarks:										

		to the dep				ator or o	confirm the absence o	of indicators.)
Depth	Matrix			x Featur			<b></b> .	
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-12	10YR 3/1	99	10YR 5/6	1	C	M	Loamy/Clayey	SL
12-18	10YR 5/1	100		*************	***************************************		Sandy	LS
	***************************************	B0000000000000000000000000000000000000			B0000000000000000000000000000000000000		***************************************	
***************************************	#REPOSTURATION OF THE PROPERTY	WARRANGE AND		***************************************		***************************************	PROGRAMOSORIANOSORIANOSORIANOSORIANOSORIANOSORIA	
<sup>1</sup> Type: C=Co	oncentration, D=Dep	letion RM=	Reduced Matrix N	 AS=Mas	ked Sand		<sup>2</sup> Location:	PL=Pore Lining, M=Matrix.
Hydric Soil I		iction, raw	reduced Matrix, it	//OWas	neu oan	Joiania	***************************************	s for Problematic Hydric Soils <sup>3</sup> :
Histosol			Sandy Gle	ved Mat	rix (S4)			t Prairie Redox (A16)
	ipedon (A2)		Sandy Red					Manganese Masses (F12)
Black His			Stripped M					Parent Material (F21)
*************	n Sulfide (A4)		Dark Surfa		,			Shallow Dark Surface (F22)
************	Layers (A5)		Loamy Mu		eral (F1)		***************************************	(Explain in Remarks)
2 cm Mu			Loamy Gle	eyed Ma	trix (F2)			
X Depleted	Below Dark Surface	(A11)	Depleted N	Лatrix (F	3)			
Thick Da	rk Surface (A12)		Redox Dar	k Surfac	e (F6)		<sup>3</sup> Indicators	s of hydrophytic vegetation and
Sandy M	ucky Mineral (S1)		Depleted [		, ,	)	wetlar	nd hydrology must be present,
5 cm Mu	cky Peat or Peat (S3	3)	Redox Dep	oression	s (F8)		unles	s disturbed or problematic.
Restrictive l	_ayer (if observed):							
Type:								
Depth (in	ches):						Hydric Soil Present	? Yes <u>X</u> No
Remarks:								
10/00010								
HYDROLO								
_	drology Indicators:							
	ators (minimum of o	ne is requi			(5.0)			y Indicators (minimum of two required)
	Water (A1)		Water-Stai		` '			ce Soil Cracks (B6)
	ter Table (A2)		Aquatic Fa	•	-			age Patterns (B10)
Saturatio	arks (B1)		True Aqua Hydrogen			١		eason Water Table (C2) ish Burrows (C8)
	t Deposits (B2)		Oxidized F		•	•		ation Visible on Aerial Imagery (C9)
	osits (B3)		Presence	•		-		ed or Stressed Plants (D1)
	t or Crust (B4)		Recent Iro			` ′		norphic Position (D2)
	osits (B5)		Thin Muck					Neutral Test (D5)
Inundatio	on Visible on Aerial Ir	magery (B7	) Gauge or \	Well Dat	a (D9)		ADDITIONAL STATE OF THE STATE O	
Sparsely	Vegetated Concave	Surface (E	38) Other (Exp	olain in F	temarks)			
Field Obser	vations:							
Surface Wat	er Present? Ye	s	No X	Depth (i	nches):			
Water Table	Present? Ye	s X	No	Depth (i	nches):	18		
Saturation P	resent? Ye	s_X_	No	Depth (i	nches): _	16	Wetland Hydrolog	y Present? Yes No _X_
(includes car								
Describe Re	corded Data (stream	gauge, mo	nitoring well, aeria	l photos	, previou	s inspec	tions), if available:	
Remarks:								

Depth	Matrix		Redo	x Featur	es			
inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-7	10YR 3/1	100					Loamy/Clayey	SL
7-14	10YR 3/1	95	10YR 5/8	5	С	<u></u> М	Loamy/Clayey	SL
14-20	2.5Y 4/2	95	10YR 5/6	5	С	<u></u> М	Loamy/Clayey	LS
14-20	2.51 4/2		1011(3/0			171	Loamy/olayey	
		MARAGEMENT AND A STATE OF THE S						
 Гуре: С=С	oncentration, D=Dep	letion, RM	 1=Reduced Matrix, I	 MS=Mas	ked Sand	Grains	 . <sup>2</sup> Location:	
	Indicators:		**************************************	***********************		***********************	***************************************	s for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Sandy Gle	yed Mat	rix (S4)		Coas	t Prairie Redox (A16)
Histic Ep	pipedon (A2)		Sandy Re	dox (S5)			Iron-M	Manganese Masses (F12)
Black Hi	stic (A3)		Stripped N	/atrix (Se	3)		Red F	Parent Material (F21)
Hydroge	n Sulfide (A4)		Dark Surfa	ace (S7)			Very	Shallow Dark Surface (F22)
Stratified	Layers (A5)		Loamy Mu	icky Min	eral (F1)		Other	(Explain in Remarks)
2 cm Mu	ck (A10)		Loamy Gle	eyed Ma	trix (F2)		вососоноск	
Depleted	l Below Dark Surface	e (A11)	Depleted I	Matrix (F	3)			
Thick Da	ark Surface (A12)		X Redox Da	rk Surfac	e (F6)		<sup>3</sup> Indicator	s of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Depleted I	Dark Sur	face (F7)	)	wetla	nd hydrology must be present,
5 cm Mu	5 cm Mucky Peat or Peat (S3) Redox Depressions (F8)						unles	s disturbed or problematic.
Restrictive	Layer (if observed):		***************************************					
Type:								
Type: Depth (ir	nches):						Hydric Soil Present	? Yes <u>X</u> No
Depth (ir	nches):						Hydric Soil Present	? Yes X No
Depth (ir	•						Hydric Soil Present	? Yes <u>X</u> No
Depth (ir	ogy						Hydric Soil Present	? Yes <u>X</u> No
Depth (in Remarks:	PGY drology Indicators:							
Depth (ir Remarks: IYDROLO Wetland Hyd	PGY drology Indicators: cators (minimum of c	one is requ					Secondar	y Indicators (minimum of two require
Depth (ir Remarks: YDROLO Vetland Hydenimary India Surface	DGY drology Indicators: cators (minimum of c Water (A1)	one is requ	Water-Sta	ined Lea			Secondar	y Indicators (minimum of two require ce Soil Cracks (B6)
Depth (ir Remarks: YDROLO Vetland Hyd Primary India Surface High Wa	drology Indicators: cators (minimum of c Water (A1) ter Table (A2)	one is requ	Water-Sta Aquatic Fa	ined Lea auna (B1	3)		Secondar Surfa Drain	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10)
Depth (ir Remarks: YDROLO Vetland Hydronia Surface High Wa Saturatio	drology Indicators: cators (minimum of c Water (A1) ter Table (A2) on (A3)	one is requ	Water-Sta Aquatic Fa True Aqua	ined Lea auna (B1 atic Plant	3) s (B14)		Secondar Surfa Drain Dry-S	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) season Water Table (C2)
Primary India Surface High Water M	drology Indicators: eators (minimum of co Water (A1) eter Table (A2) on (A3) arks (B1)	one is requ	Water-Sta Aquatic Fa True Aqua Hydrogen	ined Lea auna (B1 atic Plant Sulfide (	3) s (B14) Odor (C1)	)	Secondar Surfa Drain Dry-S	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) season Water Table (C2) ish Burrows (C8)
Primary India Surface High Water M Sedimer	drology Indicators: cators (minimum of c Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2)	one is requ	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	ined Lea auna (B1 atic Plant Sulfide ( Rhizosph	3) s (B14) Odor (C1) eres on L	) ₋iving Ro	Secondar Surfa Drain Dry-S Crayf	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) season Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9)
YDROLO  YDROLO  Vetland Hyde  Surface  High Wa  Saturatic  Water M  Sedimer  Drift Dep	drology Indicators: cators (minimum of co Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) posits (B3)	one is requ	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	ined Lea auna (B1 atic Plant Sulfide ( Rhizosph of Reduc	3) s (B14) Odor (C1) eres on L ced Iron (	) Living Ro	Secondar Surfa Drain Dry-S Crayf cots (C3) Satur Stunt	y Indicators (minimum of two requir ce Soil Cracks (B6) age Patterns (B10) season Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1)
Pimary India Surface High Water M Sedimer Drift Dep Algal Ma	drology Indicators: cators (minimum of control of contr	one is requ	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro	ined Lea auna (B1 atic Plant Sulfide ( Rhizosph of Reduc	3) s (B14) Odor (C1) eres on L ced Iron (	) Living Ro	Secondar   Surfa   Drain   Dry-S   Crayf   Satur   Stunt   s (C6)   Geon	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) beason Water Table (C2) bish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) horphic Position (D2)
Pimary India Surface High Water M Sedimer Drift Dep Algal Ma Iron Dep	drology Indicators: cators (minimum of compared to the compare		Water-Sta Aquatic Fa Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck	ined Lea auna (B1 atic Plant Sulfide ( Rhizosph of Reduc on Reduc s Surface	3) s (B14) Odor (C1) eres on L ced Iron ( tion in Ti	) Living Ro	Secondar   Surfa   Drain   Dry-S   Crayf   Satur   Stunt   s (C6)   Geon	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1)
YDROLO Yetland Hydrimary India Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep	drology Indicators: cators (minimum of compared to the compare	magery (E	Water-Sta Aquatic Fa Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 87) Gauge or	ined Lea auna (B1 Sulfide ( Rhizosph of Reduc on Reduc Surface Well Dat	3) s (B14) Odor (C1) eres on L ced Iron ( tion in Ti c (C7) a (D9)	) Living Ro	Secondar   Surfa   Drain   Dry-S   Crayf   Satur   Stunt   s (C6)   Geon	y Indicators (minimum of two requir ce Soil Cracks (B6) age Patterns (B10) season Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
Pimary India Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic	drology Indicators: cators (minimum of control of contr	magery (E	Water-Sta Aquatic Fa Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 87) Gauge or	ined Lea auna (B1 Sulfide ( Rhizosph of Reduc on Reduc Surface Well Dat	3) s (B14) Odor (C1) eres on L ced Iron ( tion in Ti c (C7) a (D9)	) Living Ro	Secondar   Surfa   Drain   Dry-S   Crayf   Satur   Stunt   s (C6)   Geon	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) beason Water Table (C2) bish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) horphic Position (D2)
Pimary India Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Sparsely	drology Indicators: cators (minimum of complete (A2) on (A3) arks (B1) on Deposits (B2) onsits (B3) of or Crust (B4) onsits (B5) on Visible on Aerial Interpretate (A2) vegetated Concaver	magery (E s Surface (	Water-Sta Aquatic Fa Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck 37) Gauge or (B8) Other (Exp	ined Lea auna (B1 atic Plant Sulfide ( Rhizosph of Reduc on Reduc Surface Well Dat Dain in F	3) s (B14) Ddor (C1) eres on L ced Iron ( tition in Ti (C7) a (D9) temarks)	) Living Ro	Secondar   Surfa   Drain   Dry-S   Crayf   Satur   Stunt   s (C6)   Geon	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) beason Water Table (C2) bish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) horphic Position (D2)
Depth (in Permary India Surface High Water M Sedimen Drift Dep Algal Ma Iron Dep Inundation Sparsely Field Obser Surface Water Water M Sedimen Drift Dep Algal Ma Iron Dep Inundation Sparsely Field Obser Surface Water Manager Manag	drology Indicators: cators (minimum of comparison of compa	magery (E Surface (	Water-Sta Aquatic Fa Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 37) Gauge or (B8) Other (Exp	ined Lea auna (B1 atic Plant Sulfide ( Rhizosph of Reduc on Reduc surface Well Dat blain in F	3) s (B14) Ddor (C1) eres on L ced Iron ( tition in Ti (C7) a (D9) temarks)	) Living Ro (C4) Illed Soil	Secondar   Surfa   Drain   Dry-S   Crayf   Satur   Stunt   s (C6)   Geon	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) season Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
Depth (ir Remarks:  IYDROLO  Wetland Hyden  Surface  High Water Mater Mater Mater Table  Sparsely  Field Obser  Surface Water Water Table	drology Indicators: cators (minimum of comparison of compa	magery (E Surface ( es	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 37) Gauge or (B8) Other (Exp	ined Lea auna (B1 atic Plant Sulfide ( Rhizosph of Reduc on Reduc on Surface Well Dat Depth (i Depth (i	3) s (B14) Odor (C1) eres on L ced Iron ( tion in Ti (C7) a (D9) emarks) nches): _ nches): _	) Living Ro (C4) Illed Soil	Secondar	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
Depth (in Remarks:  IYDROLO  Wetland Hyder  Primary India  Surface  High Water M  Sedimer  Drift Dep  Algal Ma  Iron Dep  Inundation  Sparsely  Field Obser  Surface Water Table  Saturation P	drology Indicators: cators (minimum of of of other (A1)) atter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aerial In v Vegetated Concave vations: er Present? Present? Ye resent?	magery (E Surface ( es	Water-Sta Aquatic Fa Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 37) Gauge or (B8) Other (Exp	ined Lea auna (B1 atic Plant Sulfide ( Rhizosph of Reduc on Reduc surface Well Dat blain in F	3) s (B14) Odor (C1) eres on L ced Iron ( tition in Ti e (C7) a (D9) emarks) nches): _ nches): _	) Living Ro (C4) Illed Soil	Secondar   Surfa   Drain   Dry-S   Crayf   Satur   Stunt   s (C6)   Geon	y Indicators (minimum of two requir ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
Depth (in Remarks:    YDROLO     YDROLO     Wetland Hyder     Surface     High Water M     Sedimen     Drift Dep     Algal Ma     Iron Dep     Inundation     Sparsely     Field Obser     Surface Water Table     Saturation P     Includes cap	drology Indicators: cators (minimum of of of other (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aerial In Vegetated Concave vations: er Present? Ye Present? Ye oillary fringe)	magery (E Surface o	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Irc Thin Muck 37) Gauge or Other (Ext	ined Lea auna (B1 sulfide ( Rhizosph of Reduc on Reduc Surface Well Dat blain in F Depth (i Depth (i	3) s (B14) Odor (C1) eres on L ced Iron ( ction in Ti c(C7) a (D9) demarks) enches): _nches): _	) Living Ro (C4) Illed Soil	Secondar Surfa Drain Dry-S Crayf soots (C3) Satur Stunt s (C6) FAC-	y Indicators (minimum of two requir ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
Popth (in Remarks:  YDROLO  Wetland Hyderimary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely  Field Obser Surface Water Table Saturation P includes cap	drology Indicators: cators (minimum of of of other (A1)) atter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aerial In v Vegetated Concave vations: er Present? Present? Ye resent?	magery (E Surface o	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Irc Thin Muck 37) Gauge or Other (Ext	ined Lea auna (B1 sulfide ( Rhizosph of Reduc on Reduc Surface Well Dat blain in F Depth (i Depth (i	3) s (B14) Odor (C1) eres on L ced Iron ( ction in Ti c(C7) a (D9) demarks) enches): _nches): _	) Living Ro (C4) Illed Soil	Secondar Surfa Drain Dry-S Crayf soots (C3) Satur Stunt s (C6) FAC-	y Indicators (minimum of two requir ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
Popth (in Remarks:  YDROLO  Wetland Hyderimary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely  Field Obser Surface Water Table Saturation P includes cap	drology Indicators: cators (minimum of of of other (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aerial In Vegetated Concave vations: er Present? Ye Present? Ye oillary fringe)	magery (E Surface o	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Irc Thin Muck 37) Gauge or Other (Ext	ined Lea auna (B1 sulfide ( Rhizosph of Reduc on Reduc Surface Well Dat blain in F Depth (i Depth (i	3) s (B14) Odor (C1) eres on L ced Iron ( ction in Ti c(C7) a (D9) demarks) enches): _nches): _	) Living Ro (C4) Illed Soil	Secondar Surfa Drain Dry-S Crayf soots (C3) Satur Stunt s (C6) FAC-	y Indicators (minimum of two require ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)

Profile Desc	ription: (Describe	to the dep	th needed to docu	ıment tl	ne indica	tor or o	confirm the absence of	of indicators.)
Depth	Matrix		Redox	c Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	10YR 3/2	100					Loamy/Clayey	SL
4-11	10YR 3/2	87	10YR 5/8	5	C		Loamy/Clayey	
		***************************************	10YR 5/2	8	D	<u>——</u>	***************************************	
11-18	2.5Y 5/2	98	10YR 4/6			M	Sandy	
11-10	2.51 5/2	90	10114/10	2		IVI	Sandy	
THEOREMAN CONTRACTOR OF THE STATE OF THE STAT	***************************************	описопилиния м		***************************************	***************************************	***************************************	#HONORADOCALA CONTRACTOR CONTRACT	
	***************************************			***************************************		***********	***************************************	
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion, RM	=Reduced Matrix, M	IS=Mas	ked Sand	Grains	s. <sup>2</sup> Location	: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indicator	s for Problematic Hydric Soils <sup>3</sup> :
Histosol	` '		Sandy Gle		rix (S4)			t Prairie Redox (A16)
	ipedon (A2)		Sandy Red					Manganese Masses (F12)
Black His			Stripped M		6)		***************************************	Parent Material (F21)
************	n Sulfide (A4)		Dark Surfa				***************************************	Shallow Dark Surface (F22)
	Layers (A5)		Loamy Mu	-			Other	r (Explain in Remarks)
2 cm Mu	, ,	(4.4.)	Loamy Gle	-				
	Below Dark Surface	(A11)	Depleted N	,	′		31	and bridge of the first of the
	rk Surface (A12)		X Redox Dar		. ,			s of hydrophytic vegetation and
***************************************	ucky Mineral (S1)	`	Depleted D					nd hydrology must be present,
***************************************	cky Peat or Peat (S3	)	Kedox Det	ression	s (FO)	т	unies	s disturbed or problematic.
1	_ayer (if observed):							
Type:	-1 \						Under Oall Borres	o V. V. N.
Depth (ir	icnes):				******************		Hydric Soil Present	? Yes <u>X</u> No
Remarks:								
L								
HYDROLO								
1	drology Indicators:							
	ators (minimum of o	ne is requi						y Indicators (minimum of two required)
	Water (A1)		Water-Stai		` '		***************************************	ce Soil Cracks (B6)
***********	ter Table (A2)		Aquatic Fa		-		***************************************	age Patterns (B10)
Saturatio	* *		True Aqua				_	Season Water Table (C2)
	arks (B1)		Hydrogen :					ish Burrows (C8) ation Visible on Aerial Imagery (C9)
***************************************	t Deposits (B2) osits (B3)		Oxidized R Presence of	•		-	` ' <del></del>	ed or Stressed Plants (D1)
	t or Crust (B4)		Recent Iro					norphic Position (D2)
***************************************	osits (B5)		Thin Muck			neu Son	` ′	Neutral Test (D5)
************	on Visible on Aerial Ir	nagery (B7	www.		` '			11001101 (20)
	Vegetated Concave				, ,			
Field Obser			/		<u></u>			
Surface Wat		s	No X	Depth (i	nches):			
Water Table				Depth (i	· -	17		
Saturation Pr		***************************************	***************************************	Depth (i	-	15	Wetland Hydrolog	gy Present? Yes No X
(includes cap	oillary fringe)		**************************************		´			***************************************
	corded Data (stream	gauge, mo	onitoring well, aeria	photos	, previous	s inspec	ctions), if available:	
Remarks:								

	ription: (Describe	to the dept				ator or o	confirm the absence o	of indicators.)
Depth	Matrix			x Featur		<del></del>		
(inches)	Color (moist)	<u> </u>	Color (moist)	<u></u> %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-12	10YR 3/1	95	10YR 5/8	5	C	M	Loamy/Clayey	SL
12-18	2.5Y 4/1	99	10YR 5/6	1	<u> </u>	<u>M</u>	Sandy	LS
				•		***************************************		
							***************************************	
THERMANICANANANANANANANANANANANANANANANANANAN		-		***************************************		RANDOMARANA	жинини	
1= 0.0							21	DI D III III III III III III III III II
Hydric Soil I	oncentration, D=Dep	etion, Rivi=	Reduced Matrix, I	/IS=IVIAS	ked Sand	Grains	***************************************	: PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils <sup>3</sup> :
Histosol			Sandy Gle	wod Mat	riv (SA)			t Prairie Redox (A16)
	ipedon (A2)		Sandy Red					Manganese Masses (F12)
Black His			Stripped M					Parent Material (F21)
*************	n Sulfide (A4)		Dark Surfa		3)			Shallow Dark Surface (F22)
************	Layers (A5)		Loamy Mu		eral (F1)		-	r (Explain in Remarks)
2 cm Mu			Loamy Gle	-			enonemon	(
	Below Dark Surface	(A11)	Depleted N					
-	rk Surface (A12)	, ,	X Redox Dai	rk Surfac	ce (F6)		<sup>3</sup> Indicator	s of hydrophytic vegetation and
Sandy M	ucky Mineral (S1)		Depleted [	Dark Sur	face (F7)	)	wetla	nd hydrology must be present,
5 cm Mu	cky Peat or Peat (S3	<b>;</b> )	Redox De	pression	s (F8)		unles	s disturbed or problematic.
Restrictive l	ayer (if observed):		***************************************					
Type:								
Depth (in	ches):						Hydric Soil Present	? Yes X No
Remarks:				***************************************				
HYDROLO	GY							
Wetland Hyd	drology Indicators:							
	ators (minimum of o	ne is requir						y Indicators (minimum of two required)
	Water (A1)		Water-Sta		` '			ce Soil Cracks (B6)
	ter Table (A2)		Aquatic Fa		-			age Patterns (B10)
Saturatio			True Aqua				-	Season Water Table (C2)
	arks (B1) t Deposits (B2)		— Hydrogen Oxidized F		, ,	•		ish Burrows (C8)
	osits (B3)		Presence	•		_		ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1)
	t or Crust (B4)		Recent Iro			` ′		norphic Position (D2)
	osits (B5)		Thin Muck					Neutral Test (D5)
	on Visible on Aerial Ir	nagery (B7	MARAMANA.		` '		***************************************	
	Vegetated Concave		-					
Field Observ	vations:		(CONTRACTOR)					
Surface Wat	er Present? Ye	s	No X	Depth (i	nches):			
Water Table	Present? Ye	s X		Depth (i	_	16		
Saturation P	resent? Ye	s X	No	Depth (i	nches):	14	Wetland Hydrolog	gy Present? Yes No X
(includes cap	oillary fringe)							
Describe Red	corded Data (stream	gauge, mo	nitoring well, aeria	l photos	, previou	s inspec	tions), if available:	
Remarks:								

1	-	to the dep				ator or o	confirm the absence o	of indicators.)	
Depth	Matrix			x Featur		<del></del>			
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u></u> %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-21	2.5Y 3/2	100		***********			Loamy/Clayey	SL	
21-28	2.5Y 5/1	100		*******************************	***************************************	***************************************	Sandy	LS	
100000000000000000000000000000000000000	***************************************	000000000000000000000000000000000000000				***************************************	***************************************	***	
***************************************	######################################	-		**************************************		***************************************	PROGRAMOS AND STATE OF THE STAT		unoununoununoununananananananananananana
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion RM=	Reduced Matrix M	 AS=Mas	ked Sand	Grains	<sup>2</sup> Location:	PL=Pore Lining, M=Ma	triy
Hydric Soil I		Ction, raw-	reduced Matrix, 1	NO-Was	neu oane	- Orania	***************************************	s for Problematic Hydr	************************
Histosol			Sandy Gle	ved Mat	rix (S4)			t Prairie Redox (A16)	
	ipedon (A2)		Sandy Re					Manganese Masses (F12	2)
Black His			Stripped M					Parent Material (F21)	,
Hydroge	n Sulfide (A4)		Dark Surfa				Very	Shallow Dark Surface (F	22)
Stratified	Layers (A5)		Loamy Mu	cky Mine	eral (F1)		Other	(Explain in Remarks)	
2 cm Mu	ck (A10)		Loamy Gle	eyed Ma	trix (F2)		econtened		
Depleted	Below Dark Surface	(A11)	Depleted I	Иatrix (F	3)				
Thick Da	rk Surface (A12)		Redox Da				<sup>3</sup> Indicators	s of hydrophytic vegetati	on and
***************************************	ucky Mineral (S1)		Depleted [		, ,	)		nd hydrology must be pr	*
5 cm Mu	cky Peat or Peat (S3	·)	Redox De	pression	s (F8)		unles	s disturbed or problemat	ic.
Restrictive l	_ayer (if observed):								
Type: _									
Depth (ir	iches):						Hydric Soil Present	? Yes	No _X
Remarks:									
HYDROLO	.cv								
_	drology Indicators:	na ia raaviis	end: about all that	annlu)			Casandar	u Indiaatara (minimum a	f true required)
	cators (minimum of o Water (A1)	ne is requir	ed; cneck all tnat Water-Sta		(DO)			y Indicators (minimum o ce Soil Cracks (B6)	r two requirea)
	ter Table (A2)		Aquatic Fa		` '		***************************************	age Patterns (B10)	
Saturatio	, ,		True Aqua				wannenna	Geason Water Table (C2)	
	arks (B1)		Hydrogen			)		ish Burrows (C8)	
	t Deposits (B2)		Oxidized F		•			ation Visible on Aerial Im	nagery (C9)
Drift Dep	osits (B3)		Presence	•		•		ed or Stressed Plants (D	
Algal Ma	t or Crust (B4)		Recent Iro	n Reduc	tion in Ti	lled Soil	s (C6) Geom	norphic Position (D2)	
Iron Dep	osits (B5)		Thin Muck	Surface	(C7)		FAC-	Neutral Test (D5)	
Inundatio	on Visible on Aerial Ir	nagery (B7	) Gauge or	Well Dat	a (D9)				
Sparsely	Vegetated Concave	Surface (B	8) Other (Exp	olain in F	Remarks)				
Field Obser	vations:								
Surface Wat	er Present? Ye	s		Depth (i	nches): _				
Water Table		***************************************	***************************************	Depth (i		28			
Saturation P		s <u>X</u>	No	Depth (i	nches): _	24	Wetland Hydrolog	gy Present? Yes	No _X_
(includes car			.,				1		
Describe Re	corded Data (stream	gauge, mo	nitoring well, aeria	ıı pnotos	, previou	s inspec	tions), it available:		
Remarks:									
I tomants.									

Profile Desc	ription: (Describe t	o the depti	needed to doc	ument tl	ne indica	tor or o	confirm the absence	of indicators.)		
Depth	Matrix		Redo	x Featur	es					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	F	Remarks	
0-18	2.5Y 2.5/1	100					Loamy/Clayey		SL	
18-25	2.5Y 5/1	100					Sandy		LS	
	***************************************	000000000000000000000000000000000000000		***************************************			**************************************	***************************************		
	***************************************			-			**************************************			
	NO.000000000000000000000000000000000000						***************************************	50 MARCHANIA (MARCHANIA (MARCHANI		
·		-		***************************************		************				
	***************************************							***************************************		
	oncentration, D=Depl	etion, RM=F	Reduced Matrix, N	∕/S=Mas	ked Sand	Grains	***************************************	: PL=Pore Lining	*************	******************
Hydric Soil								rs for Problema	-	oils*:
Histosol	` '		Sandy Gle				Coast Prairie Redox (A16)			
	ipedon (A2)		Sandy Re					Iron-Manganese Masses (F12)		
Black His			Stripped N	•	5)		***************************************	Parent Material (	,	
***********	n Sulfide (A4)		Dark Surfa				-	Shallow Dark Su		
***************************************	Layers (A5)		Loamy Mu	-			Otne	r (Explain in Ren	narks)	
2 cm Mu		(844)	Loamy Glo	-						
	Below Dark Surface rk Surface (A12)	(A11)	Depleted I Redox Da	•			3Indiantes	31		
	ucky Mineral (S1)		Depleted [		, ,			<sup>3</sup> Indicators of hydrophytic vegetation and		
***************************************	cky Peat or Peat (S3	1	Redox De				wetland hydrology must be present, unless disturbed or problematic.			
***************************************			Tredox Be	pression		Т	diffee			
1	_ayer (if observed):									
Type: _ Depth (ir	ichoe).						Hydric Soil Present	Soil Present? Yes X No		
*************										
Remarks:										
HYDROLO	GY									
	drology Indicators: cators (minimum of o	ao io roquir	d: abook all that	annlu)			Sacanda	ry Indicators (mir	aimum of tur	o roquirod\
	Water (A1)	ie is require	Water-Sta		was (RQ)			ice Soil Cracks (l		<u>o requirea)</u>
	ter Table (A2)		Aquatic Fa		` '			Drainage Patterns (B10)		
X Saturation			True Aqua	-	-		Dry-Season Water Table (C2)			
	arks (B1)		Hydrogen		• ,	)	Crayfish Burrows (C8)			
	t Deposits (B2)		Oxidized F					ration Visible on .	•	ery (C9)
***************************************	osits (B3)		Presence	•		-	` ′	ted or Stressed F	•	, ,
Algal Ma	t or Crust (B4)		Recent Iro	n Reduc	tion in Ti	lled Soil	s (C6) Geor	morphic Position	(D2)	
Iron Dep	osits (B5)		Thin Muck	Surface	(C7)		FAC-	Neutral Test (D5	5)	
Inundation	on Visible on Aerial In	nagery (B7)	Gauge or	Well Dat	a (D9)					
Sparsely	Vegetated Concave	Surface (B8	B)Other (Exp	olain in F	temarks)					
Field Obser	vations:									
Surface Wat	er Present? Yes	S	NoX	Depth (i	nches): _					
Water Table	Present? Yes	. X	No	Depth (i	nches): _	6				
Saturation P	resent? Yes	SX	No	Depth (i	nches): _	0	Wetland Hydrolog	gy Present?	Yes X	No
(includes car										
Describe Re	corded Data (stream	gauge, mor	iitoring well, aeria	ıı photos	, previous	sinspec	tions), if available:			
Domester										
Remarks:										

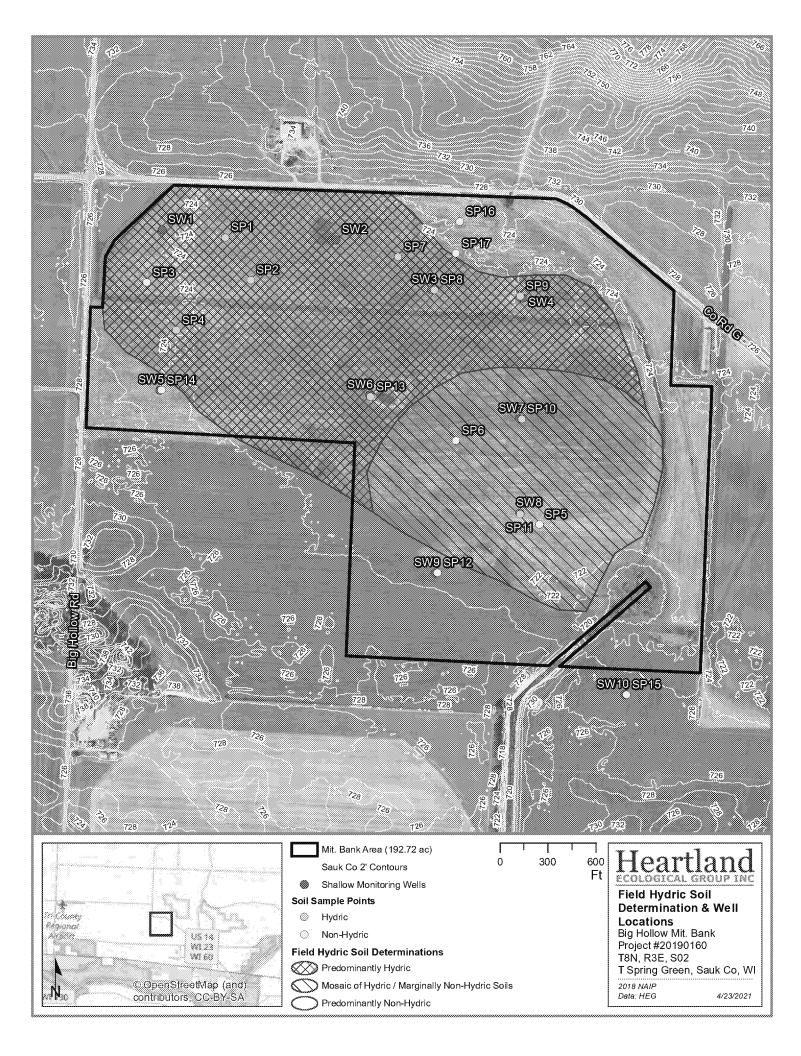
1	ription: (Describe	to the dept				tor or o	confirm the absence of	of indicators.)		
Depth	Matrix			x Featur						
(inches)	Color (moist)	<u>%</u> _	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-23	10YR 3/2	100		************			Loamy/Clayey	SiL		
23-28	10YR 5/2	100		************			Sandy	LS		
							***************************************			
		***************************************								
WARRANTENANTANIA		-		***************************************	UNRARAMANANA	***************************************				
1							2			
**********************	oncentration, D=Depl	etion, RM=	Reduced Matrix, N	иS=Mas	ked Sand	Grains		PL=Pore Lining, M=Mat	***********************	
Hydric Soil I			Canaly Cla		min (CA)			s for Problematic Hydric	Solls":	
Histosol	` '		Sandy Gle Sandy Re				Coast Prairie Redox (A16) Iron-Manganese Masses (F12)			
Black His	ipedon (A2)		Stripped M					Parent Material (F21)	l	
	n Sulfide (A4)		Dark Surfa		<i>)</i>			Shallow Dark Surface (F2	92)	
**********	Layers (A5)		Loamy Mu		eral (F1)		***************************************	(Explain in Remarks)		
2 cm Mu			Loamy Gle	-			***************************************	(Explain in Homano)		
	Below Dark Surface	(A11)	Depleted !							
-	rk Surface (A12)	,	Redox Da	,			<sup>3</sup> Indicators	<sup>3</sup> Indicators of hydrophytic vegetation and		
Sandy M	ucky Mineral (S1)		Depleted [	Dark Sur	face (F7)		wetlar	wetland hydrology must be present,		
5 cm Mu	cky Peat or Peat (S3	5)	Redox De	pression	s (F8)		unless disturbed or problematic.			
Restrictive l	ayer (if observed):									
Type:										
Depth (in	ches):						Hydric Soil Present	? Yes	No X	
Remarks:		····								
HYDROLO	GY									
Wetland Hyd	drology Indicators:									
Primary Indic	ators (minimum of o	ne is requir	ed; check all that	apply)			<u>Secondar</u>	y Indicators (minimum of	two required)	
	Water (A1)		Water-Sta		` '			ce Soil Cracks (B6)		
	ter Table (A2)		Aquatic Fa		-		wannannannannannannannannannannannannann	age Patterns (B10)		
Saturatio			True Aqua					eason Water Table (C2)		
	arks (B1)		Hydrogen		, ,			ish Burrows (C8)	(00)	
	t Deposits (B2) osits (B3)		Oxidized F Presence	•		-	***************************************	ation Visible on Aerial Ima ed or Stressed Plants (D1		
	t or Crust (B4)		Recent Iro			,		norphic Position (D2)	')	
	osits (B5)		Thin Muck			iica con	` ′	Neutral Test (D5)		
***************************************	on Visible on Aerial Ir	nagerv (B7	**********		. ,			()		
	Vegetated Concave									
Field Obser	/ations:	·								
Surface Wat		s	No X	Depth (i	nches):					
Water Table				Depth (i	-					
Saturation Pr	resent? Ye	s X	***************************************	Depth (i	-	28	Wetland Hydrolog	y Present? Yes	No X	
(includes car	oillary fringe)									
Describe Red	corded Data (stream	gauge, mo	nitoring well, aeria	l photos	, previous	s inspec	tions), if available:			
Remarks:										

Midwest Region - Version 2.0

	ription: (Describe	to the dept				ator or o	confirm the absence	of indicators.)		
Depth	Matrix			x Featur						
(inches)	Color (moist)	<u> </u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-23	10YR 3/2	100	***************************************			-	Sandy	LS		
23-28	10YR 4/4	100		************			Sandy	LS		
		-								
WARRANTENANTANIA		UNINCARRADORAR WAS		***************************************		***************************************				
1							2.			
**********************	oncentration, D=Depl	etion, RM=	Reduced Matrix, I	MS=Mas	ked Sand	Grains	***************************************	: PL=Pore Lining, M=Matr		
Hydric Soil I			Canaly Ola		min (C.4)			rs for Problematic Hydric	Solls":	
Histosol	` '		Sandy Gle Sandy Re				***************************************	Coast Prairie Redox (A16)		
Black His	ipedon (A2)		Stripped N					Iron-Manganese Masses (F12) Red Parent Material (F21)		
	n Sulfide (A4)		Dark Surfa		<i>)</i>			Shallow Dark Surface (F2	2)	
**********	Layers (A5)		Loamy Mu		eral (F1)		***************************************	r (Explain in Remarks)	<b>-</b> )	
2 cm Mu			Loamy Gle	-			***************************************	(Explain in Fromaino)		
	Below Dark Surface	(A11)	Depleted I							
-	rk Surface (A12)	` /	Redox Da	,			<sup>3</sup> Indicator	<sup>3</sup> Indicators of hydrophytic vegetation and		
	ucky Mineral (S1)		Depleted I			)		wetland hydrology must be present,		
5 cm Mu	cky Peat or Peat (S3	)	Redox De	pression	s (F8)		unless disturbed or problematic.			
Restrictive l	_ayer (if observed):									
Type:	,									
Depth (in	ches):						Hydric Soil Present	t? Yes	No X	
Remarks:							***************************************		***************************************	
HYDROLO	GY									
Wetland Hyd	drology Indicators:									
Primary India	ators (minimum of o	ne is requir	ed; check all that	apply)			Secondar	ry Indicators (minimum of t	wo required)	
Surface \	Water (A1)		Water-Sta	ined Lea	ives (B9)		Surfa	ace Soil Cracks (B6)		
High Wa	ter Table (A2)		Aquatic Fa	auna (B1	3)		Drain	nage Patterns (B10)		
Saturatio			True Aqua				-	Season Water Table (C2)		
	arks (B1)		Hydrogen		,			fish Burrows (C8)		
	t Deposits (B2)		Oxidized F	•		-	***************************************	ration Visible on Aerial Ima		
	osits (B3)		Presence			. ,		ted or Stressed Plants (D1	)	
	t or Crust (B4)		Recent Irc			liea Soli	***************************************	norphic Position (D2)		
***************************************	osits (B5) on Visible on Aerial Ir	magany (P7)	**********		` ,		FAC-	-Neutral Test (D5)		
	Vegetated Concave									
Field Obsert Surface Water		•	No. V	Donth (i	nohoo):					
Water Table			No X No X		nches): _ nches):					
Saturation P		***************************************	No X	Depth (i			Wetland Hydrolog	gy Present? Yes	No X	
(includes cap				Dopar (	-		Tronana riyaroro,	gy 110001111 100		
	corded Data (stream	gauge, moi	nitoring well, aeria	l photos	, previou	s inspec	tions), if available:			
Remarks:										

Profile Desc	ription: (Describe	to the dept	h needed to doc	ument tl	he indica	ator or o	confirm the absence o	of indicators.)		
Depth	Matrix		Redo	x Featur	es					
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-16	10YR 2/2	99	10YR 4/6	1	C	M	Loamy/Clayey	SL		
16-24	2.5Y 5/3	95	10YR 5/6	5	С	M	Sandy	LS		
				***************************************		***************************************				
						***************************************				
WARRING THE PROPERTY OF THE PR		***************************************		***************************************		***************************************				
1	***************************************						2-			
************************	oncentration, D=Dep	letion, RM=	Reduced Matrix, N	//S=Mas	ked Sand	Grains	***************************************	: PL=Pore Lining, M=Matrix.		
Hydric Soil I			Canaly Ola		-in (C.4)			rs for Problematic Hydric Soils <sup>3</sup> :		
Histosol	` '		Sandy Gle Sandy Red				Coast Prairie Redox (A16) Iron-Manganese Masses (F12)			
Black His	oipedon (A2)		Stripped M					Parent Material (F21)		
	n Sulfide (A4)		Dark Surfa		5)			Shallow Dark Surface (F22)		
**********	Layers (A5)		Loamy Mu		eral (F1)		-	r (Explain in Remarks)		
2 cm Mu			Loamy Gle	-			***************************************			
	Below Dark Surface	e (A11)	Depleted N							
-	rk Surface (A12)	` '	Redox Dar	k Surfac	e (F6)		<sup>3</sup> Indicator	<sup>3</sup> Indicators of hydrophytic vegetation and		
Sandy M	ucky Mineral (S1)		Depleted [	Dark Sur	face (F7)	)	wetla	wetland hydrology must be present,		
5 cm Mu	cky Peat or Peat (S3	3)	Redox De	oression	s (F8)		unless disturbed or problematic.			
Restrictive l	_ayer (if observed):									
Type:										
Depth (in	nches):						Hydric Soil Present	? Yes No _X		
Remarks:			***************************************				***************************************			
HYDROLO	GY									
Wetland Hyd	drology Indicators:									
	cators (minimum of c	ne is requir						y Indicators (minimum of two required		
	Water (A1)		Water-Sta		` '			ice Soil Cracks (B6)		
	ter Table (A2)		Aquatic Fa	•				age Patterns (B10)		
Saturatio			True Aqua				-	Season Water Table (C2)		
	arks (B1) it Deposits (B2)		— Hydrogen Oxidized F		•			fish Burrows (C8)		
	osits (B3)		Presence	•		_		ration Visible on Aerial Imagery (C9) red or Stressed Plants (D1)		
	t or Crust (B4)		Recent Iro			,		norphic Position (D2)		
	osits (B5)		Thin Muck					Neutral Test (D5)		
	on Visible on Aerial II	magery (B7	MARAGAMAN .		` ,		**************************************	,		
	Vegetated Concave									
Field Observ	vations:		(ALLEGE AND							
Surface Wat	er Present? Ye	S	No X	Depth (i	nches):					
Water Table	Present? Ye	s X	No	Depth (i	nches):	19				
Saturation Pr	resent? Ye	s X	No	Depth (i	nches): _	16	Wetland Hydrolog	gy Present? Yes No _X		
(includes cap	oillary fringe)									
Describe Re	corded Data (stream	gauge, mo	nitoring well, aeria	l photos	, previou	s inspec	tions), if available:			
Remarks:										

1	ription: (Describe	to the dep				tor or o	confirm the absence of	of indicators.)		
Depth	Matrix			x Featur						
(inches)	Color (moist)	<u></u> %	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-14	10YR 2/2	100		***********			Loamy/Clayey	SL		
14-24	2.5Y 5/2	100		***********			Sandy	LS		
		<b>5</b> 000								
WARRANTENANTANIA		UNIONAL VIII		***************************************	UNRARAMANANA	***************************************	ALLOSS AND THE STATE OF THE STA			
1							2			
**********************	oncentration, D=Depl	etion, RM=	Reduced Matrix, N	//S=Mas	ked Sand	Grains		PL=Pore Lining, M=Matrix		
Hydric Soil I			Canaly Cla		min (CA)			s for Problematic Hydric \$	Solls":	
Histosol	` '		Sandy Gle Sandy Red				Coast Prairie Redox (A16)  Iron-Manganese Masses (F12)			
Black His	ipedon (A2)		Stripped M					Parent Material (F21)		
	n Sulfide (A4)		Dark Surfa		<i>)</i>			Shallow Dark Surface (F22)	١	
**********	Layers (A5)		Loamy Mu		eral (F1)		-	(Explain in Remarks)	,	
2 cm Mu			Loamy Gle	-			***************************************	(Explain in Homano)		
	Below Dark Surface	(A11)	Depleted N							
-	rk Surface (A12)	,	Redox Dar	,			<sup>3</sup> Indicators	<sup>3</sup> Indicators of hydrophytic vegetation and		
Sandy M	ucky Mineral (S1)		Depleted [	Dark Sur	face (F7)		wetlar	wetland hydrology must be present,		
5 cm Mu	cky Peat or Peat (S3	5)	Redox De	oression	s (F8)		unless disturbed or problematic.			
Restrictive l	_ayer (if observed):							······		
Type:										
Depth (in	iches):						Hydric Soil Present	? Yes	No X	
Remarks:		***************************************								
	***************************************									
HYDROLO	GY									
Wetland Hyd	drology Indicators:									
Primary Indic	cators (minimum of o	ne is requir					Secondar	y Indicators (minimum of tw	vo required)	
	Water (A1)		Water-Sta		` '		***************************************	ce Soil Cracks (B6)		
	ter Table (A2)		Aquatic Fa	•	-			age Patterns (B10)		
X Saturation			True Aqua				-	eason Water Table (C2)		
	arks (B1)		Hydrogen		, ,			ish Burrows (C8)	(00)	
	t Deposits (B2) osits (B3)		Oxidized F Presence	•		_		ation Visible on Aerial Imag ed or Stressed Plants (D1)	jery (C9)	
	t or Crust (B4)		Recent Iro			,		norphic Position (D2)		
	osits (B5)		Thin Muck			ilou oon	•	Neutral Test (D5)		
***************************************	on Visible on Aerial Ir	nagery (B7	**********		. ,		-	()		
	Vegetated Concave									
Field Obser	vations:		· · · · · · · · · · · · · · · · · · ·							
Surface Wat		s	No X	Depth (i	nches):					
Water Table	Present? Ye	s X		Depth (i	· -	2				
Saturation P	resent? Ye	s X	No	Depth (i	nches):	0	Wetland Hydrolog	y Present? Yes X	No	
(includes car	oillary fringe)	***************************************	***************************************						***************************************	
Describe Red	corded Data (stream	gauge, mo	nitoring well, aeria	l photos	, previous	s inspec	tions), if available:			
Remarks:										



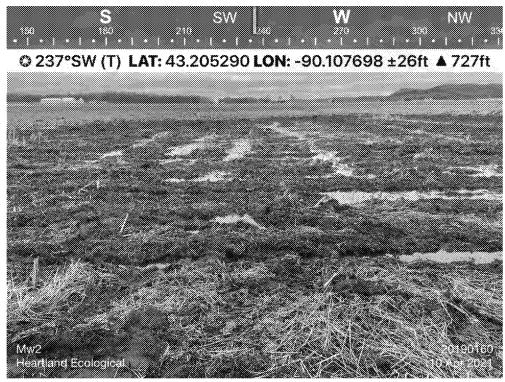


Photo #1 Monitoring Well SW-2



Photo #2 Monitoring Well SW-2

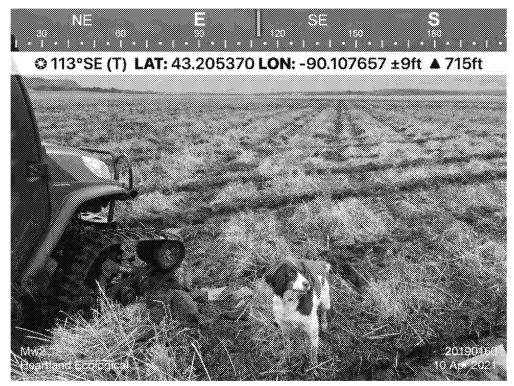


Photo #3 Monitoring Well SW-2



© 185°S (T) LAT: 43.205364 LON: -90.107647 ±9ft ▲ 717ft



Photo #4 Monitoring Well SW-2

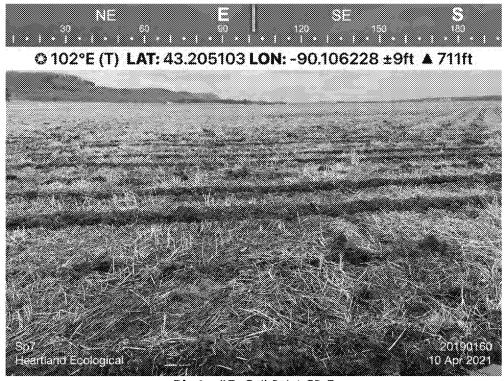


Photo #5 Soil Point SP-7



© 184°S (T) LAT: 43.205110 LON: -90.106185 ±9ft ▲ 717ft



Photo #6 Soil Point SP-7

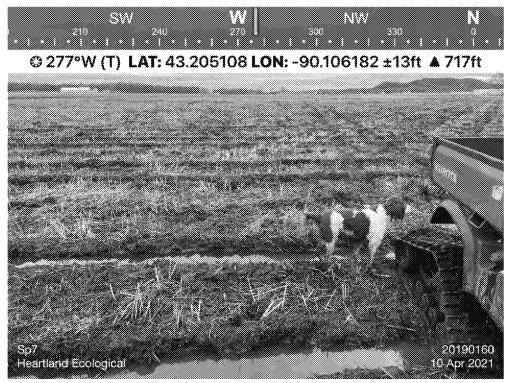


Photo #7 Soil Point SP-7



Photo #8 Soil Point SP-7



Photo #9 Monitoring Well SW-3



© 186°S (T) LAT: 43.204540 LON: -90.105346 ±9ft ▲ 716ft



**Photo #10** Monitoring Well SW-3

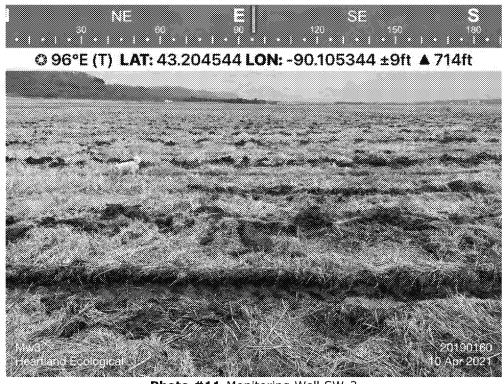
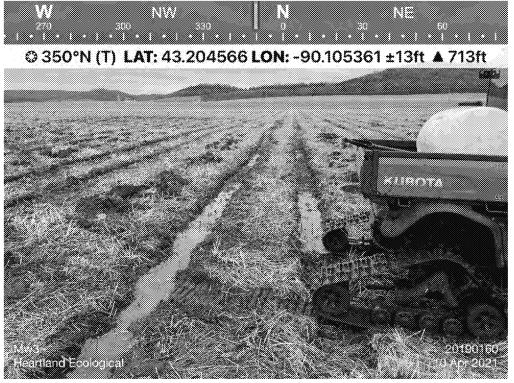


Photo #11 Monitoring Well SW-3



**Photo #12** Monitoring Well SW-3.

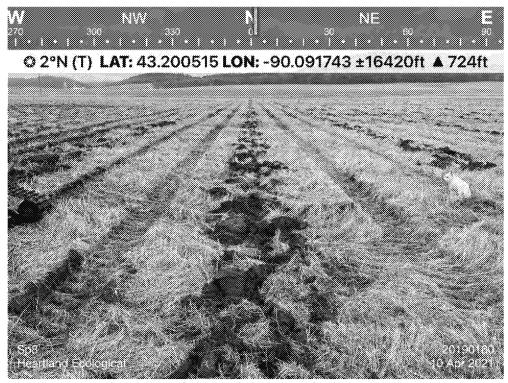


Photo #13 Soil Point SP-8





Photo #14 Soil Point SP-8.

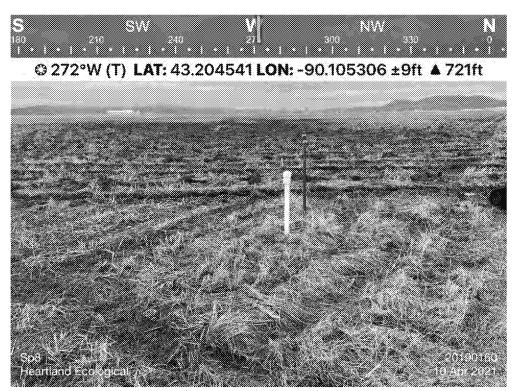


Photo #15 Soil Point SP-8



Photo #16 Monitoring Well SW-4

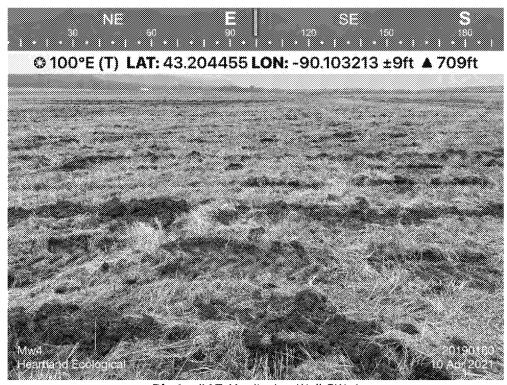


Photo #17 Monitoring Well SW-4



Photo #18 Monitoring Well SW-4

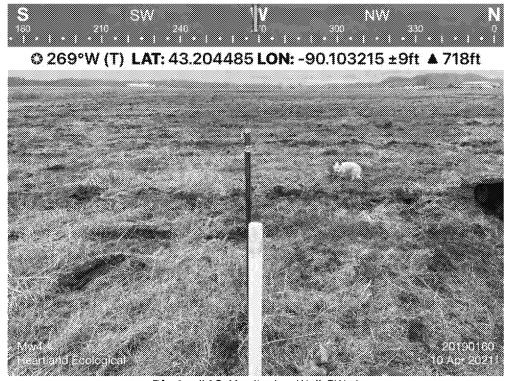
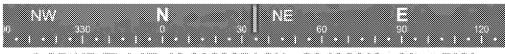


Photo #19 Monitoring Well SW-4



© 35°NE (T) LAT: 43.202387 LON: -90.103210 ±9ft ▲ 712ft

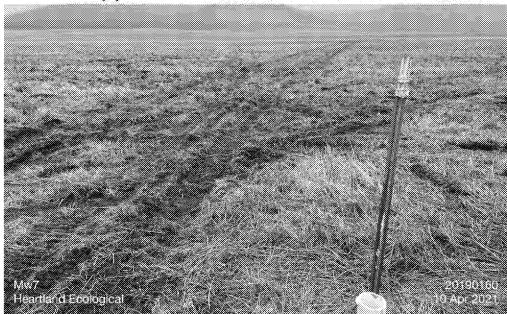


Photo #20 Monitoring Well SW-4



Awy Hearland Esological 1 (Apr. 2021)

Photo #21 Monitoring Well SW-7



© 210°SW (T) LAT: 43.202396 LON: -90.103205 ±13ft A 717ft



Photo #22 Monitoring Well SW-7

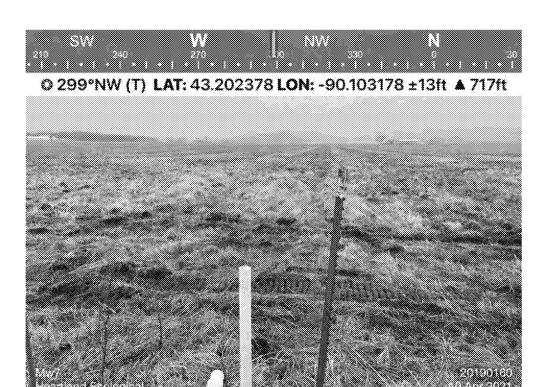
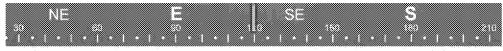


Photo #23 Monitoring Well SW-7



Photo #24 Monitoring Well SW-8



© 120°SE (T) LAT: 43.200791 LON: -90.103090 ±9ft ▲ 717ft



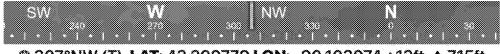
Photo #25 Monitoring Well SW-8



© 194°S (T) LAT: 43.200788 LON: -90.103098 ±13ft A 719ft



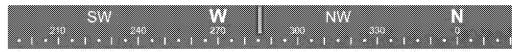
Photo #26 Monitoring Well SW-8



© 307°NW (T) LAT: 43.200779 LON: -90.103074 ±13ft A 715ft



Photo #27 Monitoring Well SW-8



© 286°W (T) LAT: 43.199692 LON: -90.104986 ±9ft A 718ft

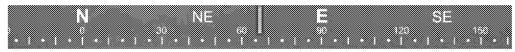


Photo #28 Monitoring Well SW-9





Photo #29 Monitoring Well SW-9



Ø 67°NE (T) LAT: 43.199692 LON: -90.105029 ±13ft ▲ 715ft



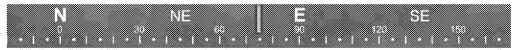
Photo #30 Monitoring Well SW-9



© 179°S (T) LAT: 43.199707 LON: -90.105018 ±13ft ▲ 714ft



Photo #31 Monitoring Well SW-9



© 75°E (T) LAT: 43.202666 LON: -90.106737 ±22ft ▲ 720ft



Photo #32 Monitoring Well SW-6

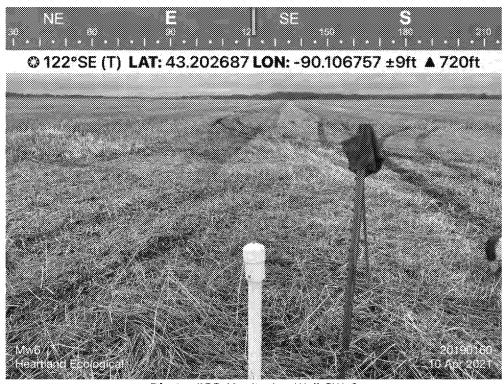


Photo #33 Monitoring Well SW-6



© 203°S (T) LAT: 43.202729 LON: -90.106707 ±9ft A 718ft



Photo #34 Monitoring Well SW-6

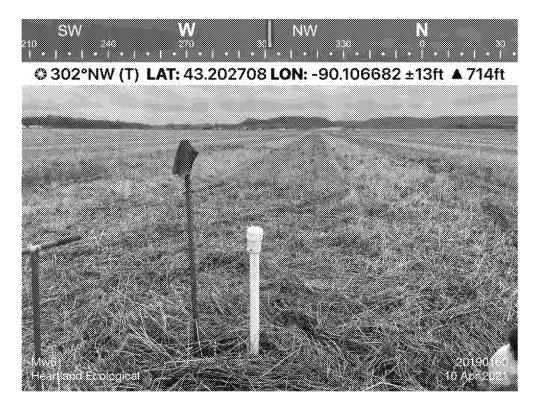


Photo #35 Monitoring Well SW-6





Photo #36 Monitoring Well SW-6

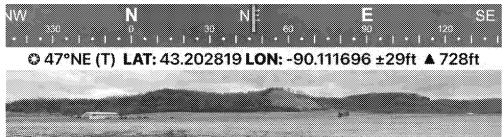
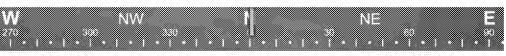




Photo #37 Monitoring Well SW-5



© 1°N (T) LAT: 43.202666 LON: -90.111702 ±9ft ▲ 715ft



Photo #38 Monitoring Well SW-5

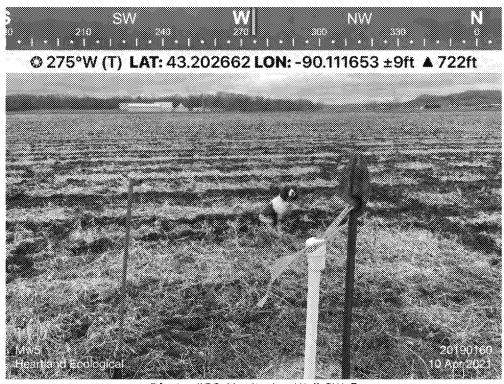


Photo #39 Monitoring Well SW-5



Photo #40 Monitoring Well SW-5

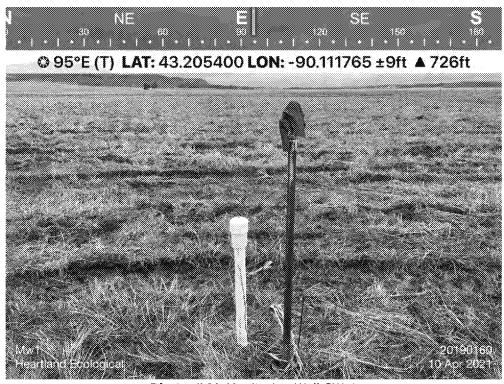


Photo #41 Monitoring Well SW-1



Photo #42 Monitoring Well SW-1



Photo #43 Monitoring Well SW-1



Photo #44 Monitoring Well SW-1

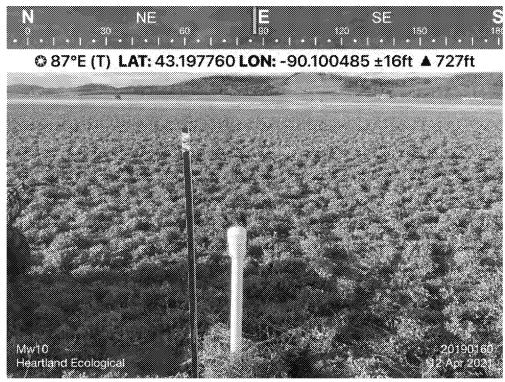


Photo #45 Monitoring Well SW-10

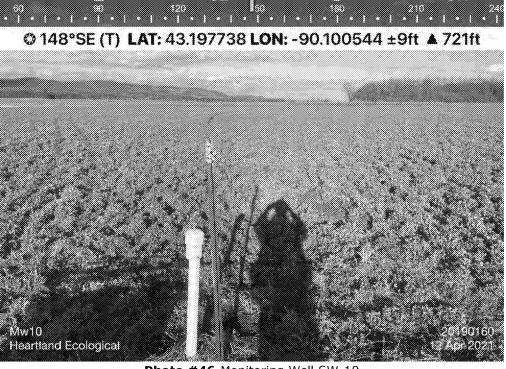


Photo #46 Monitoring Well SW-10

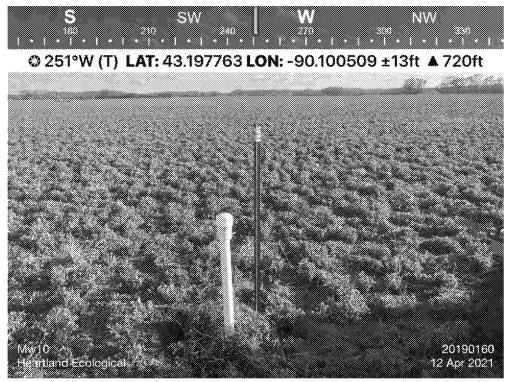


Photo #47 Monitoring Well SW-10



Photo #48 Monitoring Well SW-10

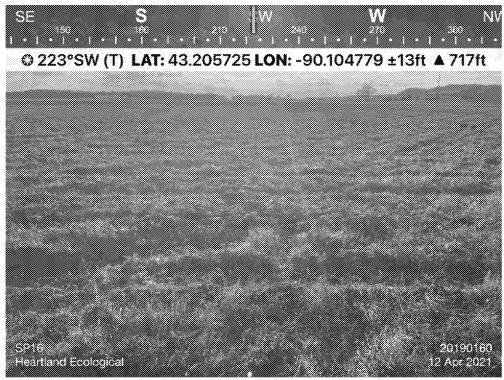


Photo #49 Soil Point SP-16



Photo #50 Soil Point SP-16



Photo #51 Soil Point SP-16.



Photo #52 Soil Point SP-16

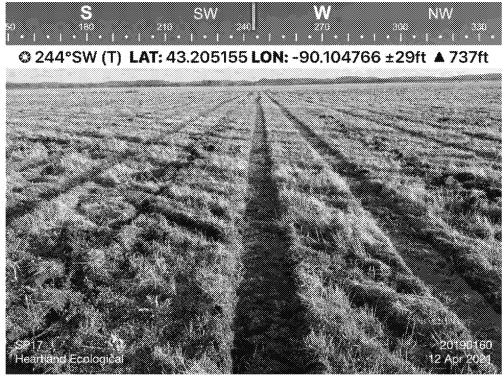


Photo #53 Soil Point SP-17



Photo #54 Soil Point SP-17

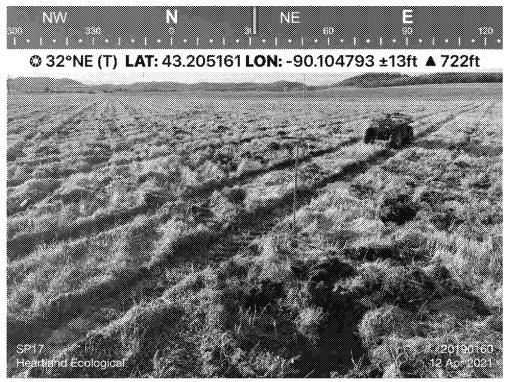


Photo #55 Soil Point SP-17



Photo #56 Soil Point SP-17